Speeds Installation Time and Simplifies Wiring

Wet Well Module Reduces Complexity

The Wet Well Alarm Module substantially reduces the installation time of a Mission M110 or M800 RTU. Share an existing high level float with both the local control panel and the Mission Remote Terminal Unit. A quick connect cable (RJ-45 ends) is included to link the Wet Well Module to the Mission M110 or M800 RTU. Determine pump run status with strap on current sensors. No more tapping into existing high voltage alarm circuits or adding interposing relays.

High Wet Well Alarms Even When AC Has Failed

The Mission Wet Well Alarm Module is an exclusive, patented device that can be added as an option to a M110 or M800 monitoring RTU. The battery backed-up host RTU powers the wet well module. The module goes between the pump station's existing high level float and the control panel enabling the RTU to detect and report high wet well levels even when there is no AC power to the station! The module relays the high wet well float closure to the existing control panel so local alarm lights and buzzers continue to operate as before if the pump station is under normal AC power. The built-in relays are "fail-safe", so if the module becomes disabled, the local alarms still function.

Pump Run Times - Up to 3 Pumps

The module incorporates fast-installing strap-on current sensors that allow the RTU to determine pump runs without interposing relays or connections to high voltage conductors. Simply tie-wrap the current sensor to one leg of the pump load conductors. Up to 3 pump runs are supported on the board. Two current sensors are included. For triplex lift stations, order a third sensor.

Current Sensor Avoids Direct Connections to High Voltage Lines and Reliably Detects Pump Runnings

Direct wiring to the high voltage pump load circuit is eliminated, resulting in a faster and safer installation. Unique strap-on current sensors sense pumps running on the load legs going to pumps. This direct sensing avoids misleading pump run indications. For example, if the pump motor fails to run (open winding, circuit breaker tripped, etc.) but the control circuit to motor starter is energized, the current sensor would correctly report pump state as not running (no current is flowing to the pump.) Other methods relying on the control circuit would report the pump as running.
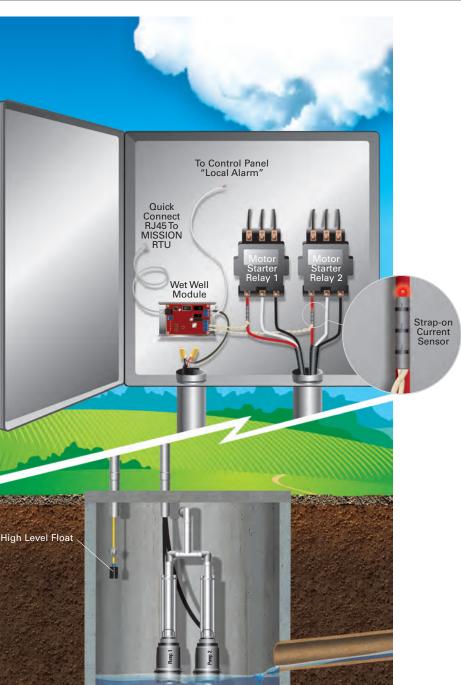
Class I, Div 2 Circuit for Hazardous Environments

Low-current and low-voltage are used to sense float status for Class I, Div 2 compliance for hazardous environments.

New Strap On Current Sensor

- **Reduce Installation Time and Complexity**

- **High Wet Well Alarms Even When AC Has Failed**

- **Pump Run State-Up to 3 Pumps**

- **Current Sensor Avoids Direct Connection to High Voltage Load and Reliably Detects Pump Run State**

- **Class I, Div 2 Circuit for Hazardous Environments**

Details

To Control Panel "Local Alarm"

Quick Connect RJ45 To MISSION RTU

Wet Well Module

Motor Starter Relay 1

Motor Starter Relay 2

Strap-on Current Sensor

High Level Float

Pump 1

Pump 2

Technical Specifications

Pump Runs Monitored:
- Up to 3, two current sensors included, additional current sensor (PN499), and wiring needed for 3rd pump

Pump Run Current:
- Greater than 5 amps sensed as "Pump Run"
- No maximum current limitation

Control Circuit Fuse:
- 5A @ 120 VAC

On Board LEDs:
Power
Pump 1 Run
Pump 2 Run
Pump 3 Run
Float
Fuse Open

LED On Current Sensor:
- Current Flow

Optional Bypass Mode:
Included bypass switch disables control panel supplied power to floats. Bypass when Class I, Div 2 compliance is required AND control panel supplies greater than 24 volts to float circuit. Back-up functionality is disabled in bypass mode.

Includes:
- Wet Well Module with 2-position mounting enclosure
- 2 current sensors
- Mounting hardware
- Cat 5 interconnect cable
- Two, 1-pair 22 gauge cables
- Instructions